**Module 2**

**Exercise 7: Financial Forecasting**

public class FinancialForecast {

public static double futureValue(double initial, double rate, int n) {

if (n == 0) {

return initial;

}

return (1 + rate) \* futureValue(initial, rate, n - 1);

}

public static void main(String[] args) {

double initial = 1000.0;

double rate = 0.05;

int years = 10;

double result = futureValue(initial, rate, years);

System.out.println("Future Value after " + years + " years: " + result);

}

}

OUTPUT:

